

EcoSmartHydro

A new approach to hydropower development

The problem

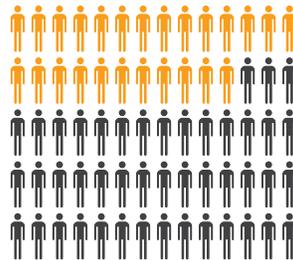
Water is the world's largest developed source of renewable energy.

But hydropower has a problem -- the conventional model for development often brings with it significant negative environmental and social impacts. Hydropower also sits at the nexus of a global challenge - how do we meet growing demands for water and energy sustainably and adaptively in the context of climate change?

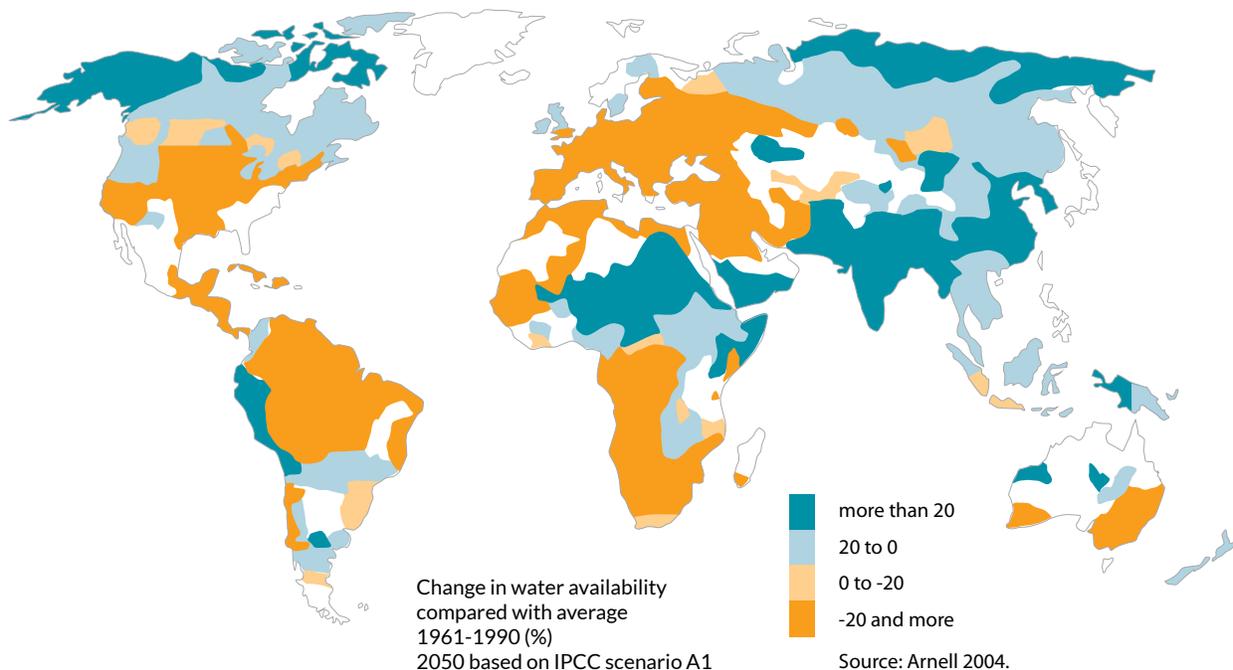
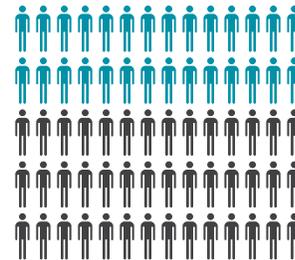
of the **7 Billion**
people on Earth today,

 = 100 Million

2.5 Billion
have unreliable or
no access to electricity



2.8 Billion
live in areas of
high water stress



We need to change the way hydropower is developed to make more efficient and synergistic use of a dwindling resource under high demand.

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The solution

Can hydropower be high-benefit and low-impact? Yes.



Supports ecosystems



Produces low-cost power



Helps local communities

High-benefit, low-impact hydropower

Conventional hydropower is characterized by a centralized approach to project planning and has large environmental, political, and social impacts.

EcoSmartHydro Power is distributed, low-impact, and successful at the utility scale. While conventional hydropower plants are designed solely to maximize power output, EcoSmartHydro Power networks are designed to maximize

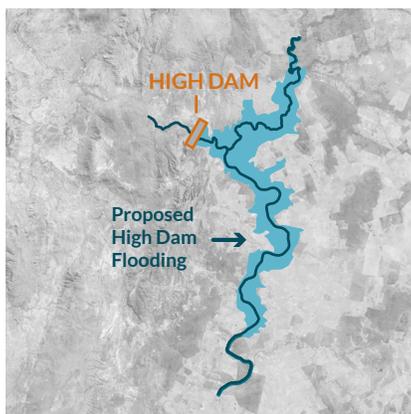
power output while maintaining the health of watershed ecosystems and the communities that surround them.

What does EcoSmartHydro Power look like?

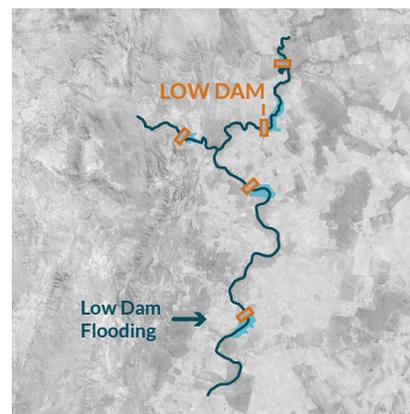
It's a locally distributed system of run-of-river plants and low weirs that is tailored to capture the head of a traditional dam while inundating significantly less land, allowing

for smarter land use and healthy riparian ecosystems. EcoSmartHydro Power systems can be designed to include storage where needed while preserving sensitive or occupied land. EcoSmartHydro is enabled by low-head hydropower technologies like Natel Energy's hydroEngine, a fish-friendly, low-head power generation technology that efficiently generates power from drops of 2 to 18 meters.

Conventional High Dam



EcoSmartHydro Solution



Help us fix hydropower.

Email us at:
ecosmarthydro@natelenergy.com
if you'd like to help us develop this vision.